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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,549	03/19/2007	Patrick Gremillet	4590-531	6244
22429 I OWF HALIP	7590 11/30/2007 FMAN HAM & BERNE		EXAM	INER
1700 DIAGONAL ROAD			MAI, LAM T	
SUITE 300 ALEXANDRI	x. VA 22314		ART UNIT	PAPER NUMBER
			2819	
			MAIL DATE	DELIVERY MODE
			11/30/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

			TI		
Office Action Summary		Application No.	Applicant(s)		
		10/581,549	GREMILLET, PATRICK		
		Examiner	Art Unit		
		LAM T. MAI	2819		
Period f	The MAILING DATE of this communication or Reply	appears on the cover sheet w	vith the correspondence address		
WHI - Ext afte - If N - Fail Any	HORTENED STATUTORY PERIOD FOR RE CHEVER IS LONGER, FROM THE MAILING ensions of time may be available under the provisions of 37 CFF or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory per lure to reply within the set or extended period for reply will, by stay reply received by the Office later than three months after the month patent term adjustment. See 37 CFR 1.704(b).	COMMUNI R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MOI atute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).		
Status					
1)⊠	Responsive to communication(s) filed on 19	9 March 2007.			
2a) <u></u>					
3)	Since this application is in condition for allo	wance except for formal mat	tters, prosecution as to the merits is		
	closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.		
Disposi	tion of Claims				
4)🛛	Claim(s) 1-12 is/are pending in the applicat	ion.			
	4a) Of the above claim(s) is/are with	drawn from consideration.			
· —	Claim(s) is/are allowed.				
	Claim(s) <u>1,10 and 11</u> is/are rejected.				
	Claim(s) <u>2-9,12</u> is/are objected to.				
8)∟	Claim(s) are subject to restriction an	d/or election requirement.			
Applica	tion Papers				
· -	The specification is objected to by the Exam				
10)[The drawing(s) filed on is/are: a) a	· · · · · ·	· ·		
•	Applicant may not request that any objection to	• • • • • • • • • • • • • • • • • • • •	` '		
11)	Replacement drawing sheet(s) including the cor The oath or declaration is objected to by the	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •		
		Examiner. Note the attache	d Office Action of John F 10-132.		
	under 35 U.S.C. § 119				
	Acknowledgment is made of a claim for fore)□ All b)□ Some * c)□ None of:	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).		
	1. Certified copies of the priority docum	ents have been received.			
	2. Certified copies of the priority docum		<u> </u>		
	3. Copies of the certified copies of the p	-	received in this National Stage		
	application from the International Bur	, , , ,			
	See the attached detailed Office action for a	II. 4 - 6 44			

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 6/2/06.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

6) Other: ____.

Notice of Informal Patent Application

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DETAILED ACTION

Specification

The abstract of the disclosure is objected to because it does not contain a single paragraph as required by MPEP § 608.01(b). Correction is required.

Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

Claim 2 is objected to because of the following informalities: Claim 2 is dependent on itself. Appropriate correction is required.

Claim 2, end of line 2, is objected to because of the following informalities: "wherein it comprises the generation of" should be deleted and ADD "further comprising generating a comb signal". Appropriate correction is required to make the claim more clarification.

Claim 4, end of line 2, is objected to because of the following informalities: "wherein it comprises the amplitude" should be deleted and ADD "further comprising generating a amplitude". Appropriate correction is required to make the claim more clarification.

Claim 6, end of line 2, is objected to because of the following informalities: "wherein it comprises the amplitude" should be deleted and ADD "further comprising generating a amplitude". Appropriate correction is required to make the claim more clarification.

Claim 8, end of line 2, is objected to because of the following informalities: "wherein it comprises the amplitude" should be deleted and ADD "further comprising generating a amplitude". Appropriate correction is required to make the claim more clarification.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 recites the limitation "the determination". There is insufficient antecedent

basis for this limitation in the claim.

Claim 1 recites the limitation "the spectrum". There is insufficient antecedent

basis for this limitation in the claim.

Claim 1 recites the limitation "the frequency response". There is insufficient

antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the pairing error". There is insufficient antecedent

basis for this limitation in the claim.

Claim 1 recites the limitation "the channel". There is insufficient antecedent basis

for this limitation in the claim.

Claim 2 recites the limitation "the generation". There is insufficient antecedent

basis for this limitation in the claim.

Claim 2 recites the limitation "the sampling frequency". There is insufficient

antecedent basis for this limitation in the claim.

Claim 2 recites the limitation "the number of channels". There is insufficient

antecedent basis for this limitation in the claim.

Claim 2 recites the limitation "the amplitude". There is insufficient antecedent

basis for this limitation in the claim.

Claim 3 recites the limitation "the offset voltage". There is insufficient antecedent

basis for this limitation in the claim.

Claim 3 recites the limitation "the basic of". There is insufficient antecedent basis for this limitation in the claim.

Claim 4 recites the limitation "the conversion system". There is insufficient antecedent basis for this limitation in the claim.

Claim 4 recites the limitation "the modulation transforms". There is insufficient antecedent basis for this limitation in the claim.

Claim 5 recites the limitation "the deviations in gain". There is insufficient antecedent basis for this limitation in the claim.

Claim 6 recites the limitation "the input signal". There is insufficient antecedent basis for this limitation in the claim.

Claim 7 recites the limitation "the sampling clock temporal". There is insufficient antecedent basis for this limitation in the claim.

Claim 8 recites the limitation "the amplitude modulation" and "the high pass filtering" and "the modulation transform". There is insufficient antecedent basis for this limitation in the claim.

Claim 9 recites the limitation "the passband error". There is insufficient antecedent basis for this limitation in the claim.

Claim 10 recites the limitation "the subtraction" and "the signal". There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 101

Claim 1 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claim 1 appears to simultaneously be directed

to both device (comprising ADC) and also a method (determination). The claim is not reasonable clear as to whether the scope of the claim is intended to be directed toward a device or method. Method claim should be clearly pointing out individual steps (such as, generating, determining, adding, subtracting, etc.). Device claim should be clearly pointing out individual component (such as, an ADC, a generator, etc.).

Claim 10 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claim 1 appears to simultaneously be directed to both device (comprising ADC) and also a method (generation). The claim is not reasonable clear as to whether the scope of the claim is intended to be directed toward a device or method. Method claim should be clearly pointing out individual steps (such as, generating, determining, adding, subtracting, etc.). Device claim should be clearly pointing out individual component (such as, an ADC, a generator, etc.).

Claim 12 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claim 1 appears to simultaneously be directed to both device (comprising ADC) and also a method (mean generating as claimed in claim 1, which is method claim). The claim is not reasonable clear as to whether the scope of the claim is intended to be directed toward a device or method. Method claim should be clearly pointing out individual steps (such as, generating, determining, adding, subtracting, etc.). Device claim should be clearly pointing out individual component (such as, an ADC, a generator, etc.).

Claim Rejections - 35 USC § 102

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Hummels D.

M. (IEEE – Distortion Compensation for time-interleaved ADC).

Regarding claim 1, Hummel discloses an architecture and describes in abstract and paragraphs 1, 3 and 4 a technique of determining spectrum of digital signal as a function of the frequency response of a ADC system with time interleaving to at least one analog calibration signal.

Regarding claim 10, Hummel discloses an architecture and describes in abstract and paragraphs 1, 3 and 4 a technique of determining spectrum of digital signal as a function of the frequency response of a ADC system with time interleaving to at least one analog calibration signal and subtracting the output of the ADC with digital signal generated by the pairing error signal.

Regarding claim 11, Hummel discloses an architecture and describes in abstract and paragraphs 1, 3 and 4 a technique of determining spectrum of digital signal as a function of the frequency response of a ADC system with time interleaving to at least one analog calibration signal and subtracting the output of the ADC with digital signal generated by the pairing error signal.

Allowable Subject Matter

Claims 2-9 and 12 are objected to as being dependent upon a rejected base claim, but they would be allowable if they rewritten in independent form including all of the limitations of the base claim and any intervening claims. Features of objected claims are not taught or suggested in the prior art.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAM T. MAI whose telephone number is (571)272-1807. The examiner can normally be reached on 5:30 am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Barnie Rexford can be reached on (571) 272-7492. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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